HPLC Application ID No.: **21960**



EPA 554: Carbonyl Compounds in Drinking Water

Kinetex® 5µm C18 100 Å, LC Column 150 x 4.6 mm, Ea

150 x 4.6 mm ID **Dimensions:** Order No: 00F-4601-E0 **Elution Type:** Gradient Eluent A: Water Eluent B: Acetonitrile



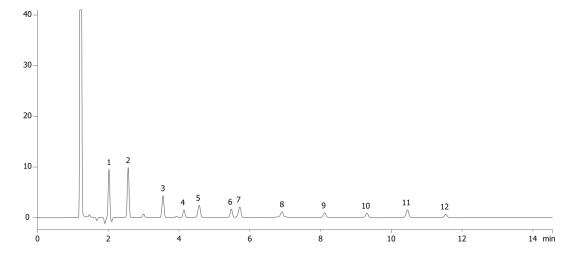
Flow Rate: 2 mL/min Col. Temp.: 30 °C

Detection: UV-Vis Abs.-Variable Wave.(UV) @ 360 nm (ambient)



Products used in this application:





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ANALYTES:

- Formaldehyde
- 2 Acetaldehyde
- 3 Propanal
- 4 Crotonaldehyde
- 5 Butanal
- 6 Cyclohexanone
- 7 Pentanal
- 8 Hexanal
- 9 Heptanal
- 10 Octanal
- Nonanal
- 12 Decanal

Sample Preparation Details

for **HPLC** Application ID No.: **21960**



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PRODUCT DESCRIPTION:

Strata® C18-E (55 µm, 70 Å), 500 mg / 6 mL, Tubes , 30/Pk

Order No.: 8B-S001-HCH

SOLID PHASE EXTRACTION (SPE) PRODCEDURE:

Note: The solvent volumes shown below are for a 500 mg bed mass.

The solvent volumes will need to be adjusted for a smaller or larger bed mass.

Condition:
Load:
Wash:
Dry:
Elute:
Final Prep and Analysis:
After elution Q.S. to 10 mL with ethanol before injection

Inject: 5 µL on HPLC UV-Vis Abs.-Variable Wave.(UV) @ 360 nm (ambient)

ANALYTES:		Spiked Conc.	Log P	pKa	% Rec	%RSC
		(ng/mL)				(n=0)
1	Formaldehyde	250				
2	Acetaldehyde	250				
3	Propanal	250				
4	Crotonaldehyde	250				
5	Butanal	250				
6	Cyclohexanone	250				
7	Pentanal	250				
8	Hexanal	250				
9	Heptanal	250				
10	Octanal	250				
11	Nonanal	250				
12	2 Decanal	250				

This method is designed as a convenient starting point for further investigation and can be tailored to meet your extraction goals. Call your local Phenomenex Representative for assistance in method development and optimization techniques.

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For more information contact your Phenomenex Representative at support@phenomenex.com



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